

EXHIBIT 24

APPENDIX E - Two-Level Hierarchy Usage by Vendors

	# Vendors	ADTRAN	Alcatel/ALU	Allied Telesis	Avaya	Brocade	Dell	D-Link	Edge-Core	Ericsson	Extreme Networks
aaa accounting	10	YES	YES	YES		YES	YES	YES	YES		
aaa authentication	12	YES	YES	YES		YES	YES	YES	YES		YES
aaa authorization	8	YES				YES	YES	YES	YES		
arp timeout	10		YES	YES	YES		YES	YES	YES		YES
banner motd	9	YES		YES		YES	YES	YES			YES
boot system	12	YES	YES	YES		YES	YES		YES	YES	YES
clear arp-cache	11	YES	YES	YES	YES		YES	YES	YES	YES	YES
clear counters	12	YES	YES	YES		YES	YES	YES	YES	YES	YES
clear ip	15	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
clear ipv6	12	YES	YES	YES	YES	YES	YES	YES	YES		
clear lldp	9		YES	YES		YES	YES		YES		YES
clear spanning-tree	9	YES	YES	YES		YES	YES	YES			YES
clock set	12		YES	YES	YES	YES	YES	YES	YES		YES
clock timezone	11		YES	YES		YES	YES	YES	YES	YES	
default-information originate	10	YES		YES	YES		YES	YES	YES	YES	
dot1x port-control	9		YES	YES		YES	YES	YES	YES	YES	
dot1x system-auth-control	8		YES	YES			YES	YES	YES	YES	
dot1x timeout	8		YES	YES		YES	YES	YES	YES	YES	
erase startup-config	8			YES		YES	YES		YES		YES
interface loopback	9				YES	YES	YES		YES		YES
interface vlan	10		YES	YES	YES	YES	YES	YES	YES	YES	YES
ip access-group	10	YES				YES	YES		YES	YES	
ip access-list	11		YES	YES	YES	YES	YES	YES	YES	YES	YES
ip address	15	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
ip as-path	7					YES	YES	YES	YES		
ip community-list	8				YES	YES	YES	YES	YES		
ip dhcp	13	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
ip domain-name	9		YES	YES	YES		YES		YES	YES	YES
ip helper-address	8			YES		YES	YES	YES	YES		YES
ip http	11		YES	YES		YES	YES	YES	YES	YES	YES
ip icmp	10				YES	YES	YES		YES		YES
ip igmp	15	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
ip multicast	7		YES			YES	YES	YES			
ip multicast-routing	8					YES	YES		YES	YES	
ip name-server	10		YES	YES	YES		YES	YES	YES	YES	YES
ip ospf	14	YES	YES		YES	YES	YES	YES	YES	YES	YES
ip pim	12		YES		YES	YES	YES	YES	YES	YES	YES
ip prefix-list	9	YES			YES	YES	YES	YES	YES		
ip proxy-arp	10					YES	YES	YES	YES	YES	YES
ip radius	7	YES		YES		YES	YES				
ip rip	14	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
ip route	13	YES		YES	YES	YES	YES	YES	YES	YES	YES
ip routing	8				YES		YES	YES		YES	YES
ipv6 access-list	10		YES	YES		YES	YES	YES	YES		
ipv6 address	12	YES	YES	YES	YES	YES	YES	YES	YES		
ipv6 enable	9			YES		YES	YES	YES	YES		
ipv6 nd	11	YES		YES	YES	YES	YES	YES	YES		
ipv6 neighbor	10	YES	YES	YES	YES	YES	YES	YES	YES		
ipv6 ospf	10		YES	YES	YES	YES	YES	YES	YES		
ipv6 prefix-list	8	YES			YES	YES	YES	YES			
ipv6 route	11	YES		YES	YES	YES	YES	YES	YES		
ipv6 router	7					YES	YES	YES	YES		
lacp system-priority	8		YES	YES	YES	YES	YES	YES			
lldp transmit	8		YES	YES			YES	YES	YES		YES
logging host	8					YES	YES		YES	YES	YES
mac access-group	10			YES		YES	YES	YES	YES	YES	YES
mac access-list	9		YES	YES		YES	YES	YES	YES		YES
mac-address-table aging-time	8		YES			YES	YES	YES	YES	YES	YES
mac-address-table static	7					YES	YES	YES	YES	YES	YES
no snmp-server	14		YES	YES	YES	YES	YES	YES	YES	YES	YES
ntp server	9	YES	YES		YES	YES	YES	YES	YES		YES
port-channel load-balance	8	YES		YES			YES	YES	YES		YES
radius-server host	9	YES	YES	YES		YES	YES	YES			YES
radius-server key	11	YES	YES	YES		YES	YES	YES	YES	YES	YES
radius-server retransmit	10		YES	YES		YES	YES	YES	YES	YES	YES
radius-server timeout	11	YES	YES	YES		YES	YES	YES	YES	YES	YES
router bgp	8				YES	YES	YES	YES	YES		
router ospf	12	YES			YES	YES	YES	YES	YES	YES	YES
router rip	12			YES	YES	YES	YES	YES	YES	YES	YES
show aaa	9		YES			YES	YES	YES	YES		
show arp	14	YES	YES	YES	YES	YES	YES	YES	YES		YES
show clock	14	YES	YES	YES	YES	YES	YES	YES	YES		YES
show dot1x	12		YES	YES		YES	YES	YES	YES	YES	YES
show environment	6					YES	YES	YES	YES		YES
show hosts	10	YES	YES	YES	YES		YES	YES	YES		
show interfaces	15	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
show ip	15	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
show ipv6	13	YES	YES	YES	YES	YES	YES	YES	YES		
show lacp	11		YES	YES	YES	YES	YES		YES	YES	YES
show lldp	12	YES	YES	YES	YES	YES	YES	YES	YES		YES
show mac	9	YES		YES			YES	YES	YES	YES	YES
show mac-address-table	10		YES		YES	YES	YES	YES	YES	YES	YES
show monitor	9	YES				YES	YES	YES	YES		
show ntp	8		YES	YES	YES	YES	YES	YES			YES
show policy-map	9		YES	YES			YES	YES		YES	
show port-security	9	YES	YES	YES		YES	YES	YES	YES		
show qos	11	YES	YES	YES	YES	YES	YES		YES		
show radius	10			YES	YES		YES	YES	YES		YES
show route-map	11	YES			YES	YES	YES	YES	YES		YES
show snmp	11		YES	YES		YES	YES	YES	YES		YES
show spanning-tree	14	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
show storm-control	9	YES		YES	YES	YES	YES	YES	YES		
show tacacs	10		YES	YES	YES		YES	YES	YES		YES
show users	14	YES	YES	YES	YES	YES	YES	YES	YES		YES
show version	11		YES	YES		YES	YES	YES	YES		YES
show vlan	15	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
show vrrp	9	YES	YES	YES		YES	YES	YES	YES	YES	
snmp trap	10		YES	YES	YES	YES	YES	YES	YES		
snmp-server community	15	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
snmp-server contact	14	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
snmp-server enable	15	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
snmp-server group	12	YES	YES	YES	YES	YES	YES	YES	YES		
snmp-server host	12	YES	YES	YES	YES	YES	YES	YES	YES		
snmp-server location	13		YES	YES	YES	YES	YES	YES	YES	YES	YES
snmp-server user	11	YES	YES	YES	YES	YES	YES	YES	YES		YES
snmp-server view	12	YES	YES	YES	YES	YES	YES	YES	YES	YES	
spanning-tree bpduguard	9	YES	YES					YES	YES		YES
spanning-tree cost	9		YES	YES		YES	YES	YES	YES	YES	
spanning-tree guard	9		YES	YES		YES	YES	YES	YES		YES
spanning-tree link-type	11	YES	YES	YES		YES	YES	YES	YES	YES	YES
spanning-tree mode	10	YES	YES	YES	YES		YES	YES	YES		
spanning-tree mst	9		YES	YES			YES	YES	YES	YES	YES
spanning-tree portfast	8		YES	YES		YES	YES	YES		YES	YES
spanning-tree port-priority	8		YES	YES			YES	YES	YES	YES	
switchport mode	10	YES	YES	YES		YES	YES	YES	YES	YES	YES
switchport trunk	7	YES	YES	YES		YES	YES	YES			YES
tacacs-server host	12	YES	YES	YES		YES	YES	YES	YES	YES	
tacacs-server key	12	YES	YES	YES		YES	YES	YES	YES	YES	
tacacs-server timeout	11	YES	YES			YES	YES	YES	YES		
terminal length	9			YES	YES	YES	YES		YES		YES

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[illegible]